AMENDMENTS TO THE CLAIMS

Claim 1 (original): A method for transferring a thin film from a source position to a target position, the method comprising:

positioning the thin film in the source position;

attaching the thin film to a first surface in a first position;

moving the first surface from the first position to a second position wherein the thin film is removed from the source position;

transferring the thin film from the first surface to a second surface, the second surface positioned in a first position;

moving the second surface from the first position to a second position; and transferring the thin film from the second surface to the target position.

Claim 2 (original): The method as recited in claim 1, wherein the thin film is provided in a container having a top and wherein the method further comprises cutting the top of the container to provide access to the thin film.

Claim 3 (original): The method as recited in claim 2, wherein cutting the top of the container further comprises cutting the thin film.

Claim 4 (original): The method as recited in claim 1, wherein the source position comprises a translatable position and wherein moving the first surface comprises translating the source position.

Claim 5 (original): The method as recited in claim 4, wherein moving the first surface further comprises translating the source position toward the first surface.

Claim 6 (original): The method as recited in claim 1, wherein the first surface comprises a perforated first surface operatively connected to a source of vacuum and wherein attaching the thin film to the first surface comprises exposing the thin film to the source of vacuum via the perforated first surface.

Claim 7 (original): The method as recited in claim 1, wherein the first surface comprises an arcuate surface and wherein moving the first surface comprises rotating the arcuate surface.

Claim 8 (original): The method as recited in claim 1, wherein the second surface comprises a perforated second surface operatively connected to a source of vacuum and wherein transferring the thin film from the first surface to the second surface comprises exposing the thin film to the source of vacuum via the perforated second surface.

Claim 9 (original): The method as recited in claim 8, wherein transferring the thin film from the perforated second surface to the target position comprises reducing the vacuum provided by the source of vacuum.

Claim 10 (original): The method as recited in claim 1, wherein the second surface comprises a thin film release mechanism and wherein transferring the thin film from the second surface to the target position comprises activating the thin film release mechanism.

Claim 11 (original): The method as recited in claim 1, wherein the thin film comprises a membrane.

Claim 12 (original): The method as recited in claim 1, wherein the thin film comprises a thin film provided in a viscous solution.

Claim 13 (original): The method as recited in claim 12, wherein the viscous solution comprises an acidic viscous solution.

Claim 14 (original): The method as recited in claim 12, wherein the thin film comprises a fuel-cell membrane.

Claim 15 (original): An apparatus for transferring a thin film from a source position to a target position, the apparatus comprising:

means for transferring the thin film from the source position to a first surface in a first position;

means for moving the first surface wherein the thin film is transferred to a second position;

means for transferring the thin film from the first surface to a second surface, the second surface in a first position;

means for moving the second surface from the first position to a second position; and means for transferring the thin film from the second surface to the target position.

Claim 16 (original): The apparatus as recited in claim 15, wherein the thin film is provided in a container having a top and wherein the apparatus further comprises means for cutting the top of the container to provide access to the thin film.

Claim 17 (original): The apparatus as recited in claim 16, wherein the means for cutting the top of the container comprises a die cutter having at least one metallic blade.

Claim 18 (original): The apparatus as recited in claim 15, wherein the source position comprises a translatable surface.

Claim 19 (original): The apparatus as recited in claim 18, wherein the translatable surface is slidably mounted in a support frame.

Claim 20 (original): The apparatus as recited in claim 18, wherein the translatable surface is a perforated translatable surface operatively connected to a source of vacuum.

Claim 21 (original): The apparatus as recited in claim 15, wherein the first surface comprises an arcuate surface.

Claim 22 (original): The apparatus as recited in claim 21 wherein the arcuate surface comprises a drum.

Claim 23 (original): The apparatus as recited in claim 21, wherein the means for moving the first surface comprises means for rotating the arcuate surface.

Claim 24 (original): The apparatus as recited in claim 21, wherein the arcuate surface comprises a perforated arcuate surface and wherein the means for transferring the thin film from the source position to the perforated arcuate surface comprises a source of vacuum operatively connected to the perforated arcuate surface.

Claim 25 (original): The apparatus as recited in claim 15, wherein the second surface comprises a perforated second surface and wherein the means for transferring the thin film from the first surface to the second surface comprises a source of vacuum operatively connected to the perforated second surface.

Claim 26 (original): The apparatus as recited in claim 25, wherein the means for transferring the thin film from the second surface to the target position comprises means for reducing the vacuum provided by the source of vacuum to the perforated second surface.

Claim 27 (original): The apparatus as recited in claim 15, wherein the means for moving the second surface from the first position to a second position comprises automated manipulators.

Claim 28 (original): The apparatus as recited in claim 15, wherein the means for transferring the thin film from the second surface to the target position comprises a thin film release mechanism.

Claim 29 (original): The apparatus as recited in claim 28 wherein the thin film release mechanism comprises a plurality of wires.

Claim 30 (original): The apparatus as recited in claim 15, wherein the thin film comprises a membrane.

Claim 31 (original): The apparatus as in claim 30, wherein the membrane comprises a fuel cell membrane.

Claim 32 (original): The apparatus as recited in claim 15, wherein the thin film comprises a thin film provided in a viscous solution.

Claim 34 33 (currently amended): The apparatus as recited in claim 32, wherein the viscous solution comprises an acidic viscous solution.

Claim 35 34 (currently amended): A method for feeding a fuel cell membrane to a fuel cell electrode, the method comprising:

positioning the fuel cell membrane onto a vacuum table;

attaching the fuel cell membrane to an arcuate surface in a first position;

rotating the arcuate surface from the first position to a second position wherein the fuel cell membrane is removed from the vacuum table;

transferring the fuel cell membrane from the arcuate surface to a transfer surface, the transfer surface positioned in a first position;

moving the transfer surface having the fuel cell membrane from the first position to a second position adjacent a fuel cell electrode; and

transferring the fuel cell membrane from the transfer surface to the fuel cell electrode.

Claim 36 35 (currently amended): An apparatus for removing a fuel cell membrane from a container and feeding the fuel cell membrane to an fuel cell electrode, the apparatus comprising:

a vacuum table for accepting the container containing a fuel cell membrane, the container having a top;

a die cutter for cutting the top of the container;

a rotatable drum having a perforated outer surface;

vacuum means for drawing at least part of the fuel cell membrane from the container and on to the perforated outer surface of the rotatable drum;

means for rotating the rotatable drum wherein the fuel cell membrane is transferred from the vacuum table to the rotatable drum:

a perforated surface operatively connected to a source of vacuum for drawing the fuel cell membrane from the rotatable drum to the perforated surface;

means for positioning the perforated surface bearing the fuel cell membrane adjacent the fuel cell electrode; and

means for transferring the fuel cell membrane from the perforated surface to the fuel cell electrode.

Claim 37 36 (currently amended): A thin film handling device comprising:

a perforated surface upon which the thin film is mounted;

a plenum communicating with at least some of the perforations in the surface;

a vacuum operatively connected to the plenum;

and a means for moving the perforated surface.

Claim 38 37 (currently amended): The thin film handling device as recited in claim 37 36, wherein the perforated surface is an arcuate surface mounted for rotation.

Claim 39 38 (currently amended): The thin film handling device as recited in claim 38 37, wherein the means for moving the arcuate surface comprises means for rotating the arcuate surface.

Claim 40 39 (currently amended): The thin film handling device as recited in claim 38 37, wherein the perforated arcuate surface comprises a cylindrical drum.

Claim 44 <u>40</u> (currently amended): The thin film handling device as recited in claim 49 <u>39</u>, wherein the interior of the cylindrical drum provides the plenum to which the vacuum is connected.

Claim 42 41 (currently amended): The thin film handling device as recited in claim 37 36, wherein, the perforated surface is a planar surface.

Claim 43 <u>42</u> (currently amended): The thin film handling device as recited in claim 37 <u>36</u>, wherein the perforated surface comprises means for dislodging the thin film from the surface.

Claim 44 <u>43</u> (currently amended): The thin film handling device as recited in claim 43 <u>42</u>, wherein the means for dislodging the thin film from the surface comprises hydraulic means, pneumatic means, or mechanical means.

Claim 45 44 (currently amended): The thin film handling device as recited in claim-44-43, wherein the mechanical means comprises a plurality of wires extending across the surface and moveable relative to the surface.

Claim 46 <u>45</u> (currently amended): A method for handling thin films comprising: providing a perforated surface in a first position;

providing a source of vacuum operatively connected to the perforated surface;

mounting the thin film on the perforated surface by means of the source of vacuum;

and

moving the surface from the first position to a second position.

Claim 47 46 (currently amended): The method as recited in claim 46 45, wherein the surface is a planar surface or an arcuate surface.

Claim 48 47 (currently amended): The method as recited in claim 47 46, wherein the surface comprises an arcuate surface and wherein the arcuate surface comprises the outer surface of a cylindrical drum.

Claim 49 48 (currently amended): The method as recited in claim 46 45, wherein moving the surface comprises translating the surface in one or more directions.

Claim 50 49 (currently amended): The method as recited in claim 46 45, wherein moving the surface comprises rotating the surface.

Claim 51 50 (currently amended): The method as recited in claim 46 45, further comprising dislodging the thin film from the surface.

Claim 52 51 (currently amended): The method as recited in claim 54 50, wherein dislodging the thin film from the surface comprises hydraulicly, pneumatically, or mechanically dislodging the thin film from the surface.

Claim 53 52 (currently amended): The method as recited in claim 1, wherein the second surface comprises a perforated second surface operatively connected to a source of pressurized gas and wherein transferring the thin film from the perforated second surface to the target position comprises providing pressurized gas to thin film.

Claim 54 53 (currently amended): The apparatus as recited in claim 15, wherein the second surface comprises a perforated second surface operatively connected to a source of pressurized gas and wherein the means for transferring the thin film from the second surface to the target position comprises means for providing pressurized gas to thin film.

Claim 55 54 (currently amended): The thin film handling device as recited in claim 37 36, further comprising means for pressuring the plenum.

Claim 56 55 (currently amended): The method as recited in claim 10, wherein the thin film release mechanism comprises a plurality of wires.

Claim 57 56 (currently amended): A method for handling a thin film, the thin film provided in a container having a top and a bottom, the method comprising:

providing a first perforated surface, the first perforated surface provided with a source of vacuum;

mounting the container with the thin film on the perforated surface by means of the source of vacuum;

severing the top of the container wherein the top of the container can be displaced;

displacing the top of the container;

providing a second perforated surface, the second perforated surface provided with a source of vacuum; and

transferring the thin film from the first perforated surface to the second perforated surface.

Claim 58 57 (currently amended): The method of claim 57 56, wherein displacing the top of the container from the container comprises one of manually displacing the top of the container and automatedly displacing the top of the container.

Claim 59 58 (currently amended): The method of claim 57 56, wherein displacing the top of the container comprises removing the top of the container.

Claim 60 59 (currently amended): The method of claim 57 56, further comprising moving the second perforated surface having the thin film to a target location.

Claim 61 <u>60</u> (currently amended): The method of claim 57 <u>56</u>, where in the method comprises a method for handling fuel-cell membranes.